



M10+
Air Quality Monitor
User Manual

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Factors Affecting Air Quality



PM2.5 (Particulate Matter 2.5) refers to fine particles with a diameter of 2.5 microns or less. Due to its tiny size, PM2.5 can get absorbed into the bloodstream and lungs, so long-term exposure to high levels of PM2.5 may cause eye and nose irritation, coughing, asthma, emphysema, lung disease, heart attacks, cancer, and more.



Carbon dioxide (**CO₂**) is a colorless and odorless gas usually derived from the breath of humans and animals. High CO₂ concentration means that fresh air or ventilation is required; otherwise, it may cause problems such as drowsiness, dizziness, loss of attention, and cognitive impairment.



TVOC (Total Volatile Organic Compounds) are a wide range of chemicals that readily evaporate into the air at room temperature. TVOC sensors behave similarly to the human nose, responding to changes in the relative intensity of indoor TVOCs on a scale from 1 to 500.



Temperature & Humidity may often be ignored however they do have a significant impact on individual's well-being, comfort, health and safety as well as your property. High humidity may lead to an increase in household air pollutants especially the biological contaminants such as molds, bacteria, viruses and dust mites; cold, low humidity may cause nosebleeds, skin and respiratory irritations, dyspnea, static electricity and etc.

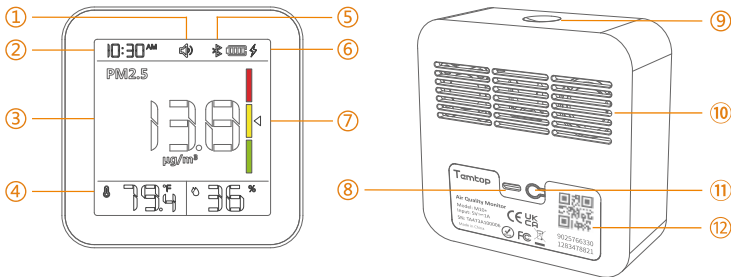


AQI (Air quality index) is a quick guide to air quality levels. It aims to indicate the cleanliness or pollution level of the air in an easy-to-understand way. It ranges from 0 to 500, with higher values indicating higher levels of air pollution and adverse health effects. AQI assessments can show PM2.5, PM10, O₃, SO₂, NO₂, CO, etc. Temtop calculates AQI according to EPA standards and focuses only on PM2.5 and PM10.

Important

- ★ Do not expose the detector to heavily contaminated environments for long periods, as this can damage the sensor.
- ★ Do not use the detector in wet conditions for extended periods to ensure accurate measurements.
- ★ Do not use the detector for long periods in environments with a strong, irritating smell to ensure accurate measurements.
- ★ Do not cover the vents of the detector and keep lint out of the detector, as the particle sensor may not work correctly.
- ★ Do not dismantle the unit yourself. In the event of a defect, contact your dealer instead, who will liaise with the service centre and, if necessary, send the device in for repair.
- ★ Children should only use this device under adult supervision. Keep packaging materials, such as plastic bags and plastic wrap, out of the reach of children as they present a choking hazard.
- ★ This product is intended for monitoring the health of the indoor environment only and should not be considered a professional measurement tool.

Overview



- | | | |
|---------------------------------------|-----------------------------|----------------------------|
| ① Buzzer Display Status | ② Time | ③ Air Quality Display Area |
| ④ Temperature & Humidity Display Area | ⑤ Bluetooth | |
| ⑥ Battery Level & Charging Status | ⑦ Health Level Display Area | |
| ⑧ USB Port | ⑨ Home Button | ⑩ Air Inlet/Outlet |
| ⑪ Back Button | ⑫ GUID QR Code * | |

* GUID QR Code:

1) A unique GUID number for the product.

2) Scan the GUID QR code with the Tamtop app for Bluetooth connectivity.

Specifications

Model: M10+

Dimensions: 82x82x31mm (3.2x3.2x1.2 in)

Battery capacity: 2200mAh

Input: DC 5V 1A

Operation environment: 0-50°C (32-122°F)

0-90%RH

PM2.5

Measuring range: 0-999.9 µg/m³

Resolution: 0.1 µg/m³

Accuracy: ±10µg/m³(0-100µg/m³)

±10%(100-500µg/m³)

CO₂

Measuring range: 400-5000ppm

Resolution: 1ppm

Accuracy: ±(40ppm +5%)
(400-2500ppm)

TVOC

Index range: 1-500

Resolution: 1

Temperature*

Measuring range: 0-60°C (32-140°F)

Resolution: 0.1°C (0.1°F)

Accuracy: ±0.5°C (±0.9°F)

Humidity

Measuring range: 0-99%RH

Resolution: 0.1%RH

Accuracy: ±3%RH

- * 1) When charging, the temperature will be on the high side and it will take about half an hour to return to normal after charging.
2) When detecting sudden changes in ambient temperature, a greenhouse acclimatisation time of about half an hour is required.

Note: The above data are from Temtop Laboratory.

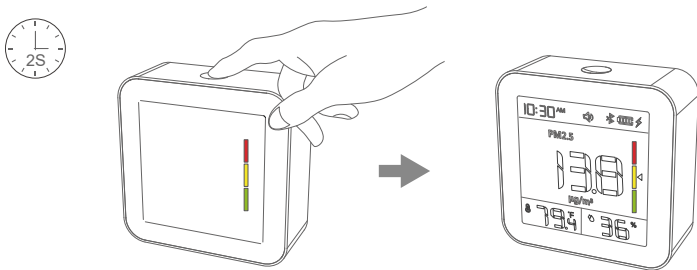
Operations

Warning!

- For indoor use: Keep the room/area airtight for 10 minutes to obtain more accurate results.
- If the battery level shows , please charge the detector in time to avoid being affected during use (it can also recharge when switched off).
- This product uses ink screen, product operation process, the full screen black and white anti-display flicker is a normal phenomenon.

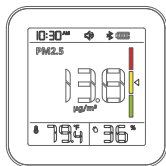
1. On/Off

Press Home button 2s to turn ON/OFF the M10+ monitor.



2. Display

- 2.1 Click the Home button to switch the parameter display interface; the display order is PM2.5/AQI/CO2/TVOC.
- 2.2 Double-click the Home button to enable Auto Loop mode.
Double-click again to exit Auto Loop mode.

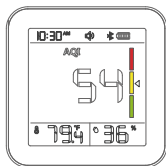


PM2.5



Status	Reference NAAQS(2012)	Reference NAAQS(2024)
Poor	55.5~999.9	55.5~999.9
Fair	12.1~55.4	9.1~55.4
Good	0~12	0~9

Note: Our app lets you toggle between the 2012 and 2024 EPA PM2.5 standards, catering to your specific needs.

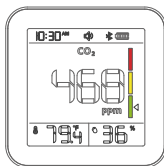


AQI*



Status	Reference
Poor	151~500
Fair	51~150
Good	0~50

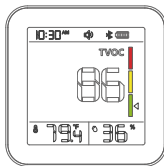
**Follow EPA particle pollution standards to calculate the AQI for PM2.5.*



CO₂



Status	Reference
Poor	1501~5000
Fair	1001~1500
Good	400~1000



TVOC



Status	Reference
Poor	351~500
Fair	101~350
Good	1~100

2.3 Buzzer switch Icon 🔔

Displayed: Buzzer sound on the device is turned on;

Not displayed: The buzzer sound is turned off.

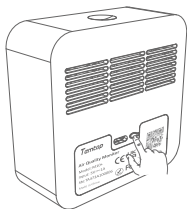
- 1) The buzzer chirps once when the buzzer function is turned on/off (APP operation is synchronized).
- 2) When the buzzer is switched on, the air quality level deterioration sounds twice.
- 3) The buzzer alarm and three-colour bar indication are for the current display screen only.

2.4 Bluetooth Icon 📶

Displayed: Bluetooth icon is displayed when connected.

Not displayed: Bluetooth icon is not displayed when disconnected.

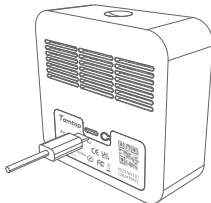
3. Back Button



operate	status
Double click	Turn on/off the buzzer
Press and hold 3s	Switch temperature unit (°F/°C)

4. Charging

When the battery level is low, please charge it by connecting it to the USB cable and power supply.



5. Bluetooth Connection

5.1 Temtop App

Please search Temtop on App Store or Google Play,
or simply scan the QR code below to download the app:



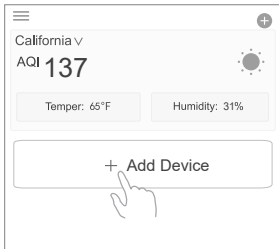
iOS App



Android App

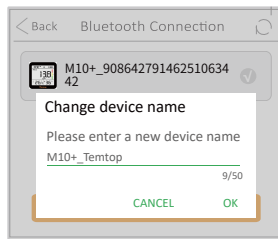
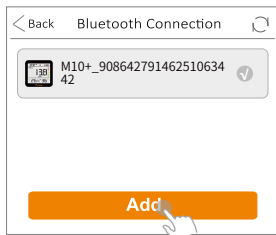
5.2 Add Device

- a. Start adding devices by clicking the '+' sign on the home page of the Temtop application.



- b. Enable your phone's Bluetooth with the app, which will automatically detect Temtop devices in range of Bluetooth. Please select the Temtop device you wish to add and click the Add button.

If you have problems connecting your device, bring the device close to your mobile phone and make sure they are close enough to make a successful Bluetooth connection.



5.3 APP Main Functions

- Access real-time measurement data.
- View historical data curves.
- Data storage and export.
- Calibrate the device.
- Change device parameter preferences and much more...

Note: 1)When using the app, make sure your device is within the Bluetooth range.
Please avoid moving too far away from the device.

2)Due to the upgrading and updating of Temtop APP, the actual operation may be slightly different from the above description, please follow the current guidelines within Temtop APP.

FAQ

Q: Why can't I receive the verification code when I sign up for an APP account?

- A: ① Please check the advertisement mails and spam mails, your mailbox may automatically classify the CAPTCHA mails into advertisement mails and spam mails.
② Google Mail, Outlook, and other major mailboxes are recommended.

Q: Why can't the APP connect to the device?

- A: ① Make sure your phone and device are in the same room and as close to the device as possible.
② Try restarting the device or connecting with another phone.
③ If the issue is still not resolved, please contact our customer service for further support.

Q: Why is the PM2.5 reading constantly changing?

A: As PM2.5 concentration in the environment is changing all the time not only due to environmental factors like changes in airflow, humidity, wind direction, etc. but also due to common pollutant sources like smoking, cooking; exhaust emissions from vehicles, smoke from burning coal/chimneys/ furnaces, etc. All these may influence the PM2.5 concentrations and give differences in the readings.

Q: Is it true that AQI calculations are not scientific?

A: We calculate the AQI based on PM2.5/PM10, which is MAX (AQI-PM2.5, AQI-PM10), and there are corresponding AQIs for O₃, CO, SO₂, NO₂, and so on, and the official one is released with the maximum of these AQI-PM2.5, AQI-PM10 and other 6 AQIs. The main source of indoor pollution is particulate matter so AQI-Particulate Matter can respond well to indoor AQI.

FAQ

Q: AQI/ PM2.5 and other values, why the measured value is inconsistent with the official announcement?

A: The AQI/PM2.5 shown on the display is a measurement of the space where the device is located. The measured value published on the Internet or official websites is the average value of several monitoring points, and each measurement point will be different. At the same time, according to the regulations of EPA and WHO, the AQI value is calculated based on the highest value among the five pollutants in the atmosphere on that day. In the past ten years, the local AQI in the United States has basically been calculated with the value of PM2.5/PM10, and sometimes with the value of O₃.

Q: Why is the test result abnormal ?

- A: ① Please check that the air inlet or outlet is not covered or that liquid has entered.
② Gently shake the detector during detection to increase interaction with the surrounding air.
③ The sensor may not recover, so please place the detector outside in a ventilated area.

Q: Why is CO₂ data high?

A: The user's environment may be poorly ventilated, resulting in high CO₂ concentration; it is recommended that the user place the product in an outdoor ventilated place for 10 minutes. If the data is still high, the customer is advised to perform a CO₂ calibration via the APP.

FAQ

Q: What is TVOC and what are the common sources in households?

A: TVOC (Total Volatile Organic Compounds) refers to a variety of chemical substances that easily evaporate into the air at room temperature. The TVOC sensor behaves similarly to the human nose and reflects changes in the relative intensity of indoor TVOC on a scale from 1 to 500. Common sources of TVOCs in the home include alcohol, air fresheners, citrus fruits, scented candles, paints, cleaning supplies, pesticides, building materials and furniture, inks, glues, and various cosmetics.

Q: Why are the TVOC data readings very high/out of range when with the detectors on?

A: Being packed in an ink-printed box may interfere with the sensor over time due to the organic volatiles left in the packaging. Therefore, once unpacked, please place the detector in a ventilated area to help speed up its data recovery.

Q: Why is the temperature high when charging?

A: The temperature and humidity sensor is located inside the product. When charging, a large amount of heat will be generated, causing the actual temperature of the product to rise.

Q: Why is the data high after booting?

A: The reason why the data is high when you first turn on the sensor is that when the sensor starts to work, the fan will run at full speed, and it will take a while (about 1-2 minutes) for the fan to run stably. At this time, the airflow in the air duct will be stable, and the data will gradually become stable.

What's Included

- Air Quality Detector x1
- M10+ Manual x1
- USB Cable x1

Warranty

Temtop warrants the included detector for 1 year from the date of original purchase. The item can be exchanged or returned within 30 days if the defect is not caused by artificial damage.

Item	Warranty Period
Detector	1 year
Accessories	N/A

Before return or delivery for repair, please check if the following ✓ items are ready:

	Detector & Accessories	Complete Package	Proof of Purchase*	Gift (if any)
Return	✓	✓	✓	✓
Exchange	✓	✓	✓	
Repair	✓		✓	

* Including invoice, order number and etc.

Temtop warranty does NOT include:

- Malfunction or damages caused by artificial damage or modification.
- Other deliberate damages.
- Damage caused by natural events.

Elitech Technology, Inc

2528 Qume Dr, Ste 2

San Jose, CA 95131 USA

Tel: (+1) 408-898-2866

Facebook: www.facebook.com/temtopus

Instagram: www.instagram.com/temtopaqm/

youtube: www.youtube.com/@Temtopus

linkedin: www.linkedin.com/company/temtop-us/

X: x.com/temtopus48285

Sales: sales@temtopus.com

Website: www.temtopus.com

Elitech Brazil Ltda

R.Dona Rosalina,90-Lgara, Canoas-RS

92410-695,Brazil

Tel: (+55)51-3939-8634

Sales: brasil@e-elitech.com

Website: www.elitechbrasil.com.br

Elitech (UK) Limited

Unit 13 Greenwich Business Park,

53 Norman Road,London, SE10 9QF

Tel: (+44)208-858-1888

Youtube: [@elitech_uk](https://www.youtube.com/@elitech_uk)

Instagram: [@elitechuk_](https://www.instagram.com/@elitechuk_)

Facebook: [@hvaccontrol](https://www.facebook.com/@hvaccontrol)

Sales: sales@elitecheu.com

Website: www.temtop.co.uk

V1.3

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